

WHAT IS CLAIMED IS:

1 1. A remote control imaging system comprising:
2 an imaging platform capable of controllable motion about
3 three orthogonal axes;
4 an imaging device supported by the imaging platform; and
5 a remote control having a video display for displaying the
6 output of the imaging device, one or more imaging platform motion
7 controls, at least one of iris, zoom, and focus controller for the
8 imaging device, and a camera control handle interface.

1 2. The system of Claim 1 further comprising:
2 a camera system control for providing wireless
3 interconnection between the imaging device and the remote control,
4 the camera system control having multiple independent channels of
5 operation for at least one of iris, zoom, and focus controller,
6 and proportional control outputs to the imaging device.

1 3. The system of Claim 2 further comprising:
2 a camera interface for connecting an imaging device and a
3 camera system control.

1 4. The system of Claim 1 further comprising:
2 a universal adapter for connecting the imaging platform to a
3 variety of support devices.

1 5. The system of Claim 1 wherein the remote control further
2 comprises:
3 a video receiver interface.

1 6. The system of Claim 5 wherein the video receiver interface
2 further comprises:
3 an external video receiver interface.

1 7. The system of Claim 5 wherein the video receiver interface
2 further comprises:

3 multiple video receivers, in parallel or series.

1 8. The system of Claim 5 wherein the video receiver interface
2 further comprises:

3 an exchangeable video receiver.

1 9. The system of Claim 1 wherein the imaging platform motion
2 control further comprises:

3 a joystick.

10. The system of Claim 1 wherein the imaging platform motion
control further comprises:

a selectable response speed controller.

11. The system of Claim 1 wherein the at least one of iris, zoom,
and focus controller further comprises:

a corresponding fine adjustment controller.

12. The system of Claim 1 wherein the remote control further
comprises:

an independent power source.

13. The system of Claim 12 wherein the independent power source
further comprises:

one or more batteries.

14. The system of Claim 1 wherein the video display further
comprises:

a video monitor.

15. The system of Claim 1 wherein the video display further
comprises:

3 a television tuner.

1 16. The system of Claim 1 wherein the remote control further
2 comprises:

3 a programming display and control.

1 17. The system of Claim 1 wherein the remote control further
2 comprises:

3 an on-board communication package allowing interaction
4 between a remote control operator and other personnel.

1 18. The system of Claim 1 wherein the remote control further
2 comprises:

3 a wireless connection to at least one of the imaging device
4 or imaging platform.

1 19. A remote control comprising:

2 a video display for displaying the output of an imaging
3 device;

4 one or more imaging platform motion controls;

5 at least one of iris, zoom, and focus controller for the
6 imaging device; and

7 a camera control handle interface.

1 20. The device of Claim 19 wherein the remote control further
2 comprises:

3 a video receiver interface.

1 21. The device of Claim 20 wherein the video receiver interface
2 further comprises:

3 an external video receiver interface.

1 22. The device of Claim 20 wherein the video receiver interface
2 further comprises:

multiple video receivers, in parallel or series.

23. The device of Claim 20 wherein the video receiver interface further comprises:

an exchangeable video receiver.

24. The device of Claim 19 wherein the imaging platform motion control further comprises:

a joystick.

25. The device of Claim 19 wherein the imaging platform motion control further comprises:

a selectable response speed controller.

26. The device of Claim 19 wherein the at least one of iris, zoom, and focus controller further comprises:

a corresponding fine adjustment controller.

27. The device of Claim 19 wherein the remote control further comprises:

an independent power source.

28. The device of Claim 27 wherein the independent power source further comprises:

one or more batteries.

29. The device of Claim 19 wherein the video display further comprises:

a video monitor.

30. The device of Claim 19 wherein the video display further comprises:

a television tuner.

1 31. The device of Claim 19 wherein the remote control further
2 comprises:

3 a programming display and control.

1 32. The device of Claim 19 wherein the remote control further
2 comprises:

3 an on-board communication package allowing interaction
4 between a remote control operator and other personnel.

1 33. The device of Claim 19 wherein the remote control further
2 comprises:

3 a wireless connection to at least one of the imaging device
4 or imaging platform.

1 34. In a conventional arrangement for remotely operating an
2 imaging device and an imaging platform, including a plurality of
3 operators and operating equipment, wherein the improvement
4 consists of:

5 a remote control having a video display for displaying the
6 output of the imaging device, one or more imaging platform motion
7 controls, at least one of iris, zoom, and focus controller for the
8 imaging device, and a camera control handle interface.

1 35. The device of Claim 34 wherein the remote control further
2 comprises:

3 a video receiver interface.

1 36. The device of Claim 35 wherein the video receiver interface
2 further comprises:

3 an external video receiver interface.

1 37. The device of Claim 35 wherein the video receiver interface
2 further comprises:

3 multiple video receivers, in parallel or series.

1 38. The device of Claim 35 wherein the video receiver interface
2 further comprises:

3 an exchangeable video receiver.

1 39. The device of Claim 34 wherein the imaging platform motion
2 control further comprises:

3 a joystick.

1 40. The device of Claim 34 wherein the imaging platform motion
2 control further comprises:

3 a selectable response speed controller.

1 41. The device of Claim 34 wherein the at least one of iris,
2 zoom, and focus controller further comprises:

3 a corresponding fine adjustment controller.

1 42. The device of Claim 34 wherein the remote control further
2 comprises:

3 an independent power source.

1 43. The device of Claim 42 wherein the independent power source
2 further comprises:

3 one or more batteries.

1 44. The device of Claim 34 wherein the video display further
2 comprises:

3 a video monitor.

1 45. The device of Claim 34 wherein the video display further
2 comprises:

3 a television tuner.

1 46. The device of Claim 34 wherein the remote control further
2 comprises:

3 a programming display and control.

1 47. The device of Claim 34 wherein the remote control further
2 comprises:

3 an on-board communication package allowing interaction
4 between a remote control operator and other personnel.

1 48. The device of Claim 34 wherein the remote control further
2 comprises:

3 a wireless connection to at least one of the imaging device
4 or imaging platform.

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